

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 64-027194

(43)Date of publication of application : 30.01.1989

(51)Int.Cl. H05B 33/14
C09K 11/00
C09K 11/56

(21)Application number : 62-183920

(71)Applicant : NEC CORP

(22)Date of filing : 22.07.1987

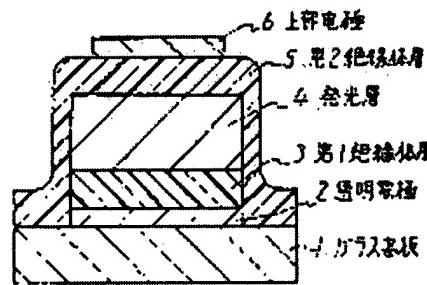
(72)Inventor : YOSHIOKA TOSHIHIRO

(54) THIN FILM EL ELEMENT

(57)Abstract:

PURPOSE: To improve luminance efficiency and element characteristic by forming a light emitting layer, consisting of sulfide of alkali-earth element activated with Eu, with mixed crystals of MgS and CaS.

CONSTITUTION: An EL element is formed by forming a film of a transparent electrode 2 and a 1st insulation layer 3 on a glass substrate 1, forming over them a light emitting layer 4 with the composition of $Mg_{1-x}Ca_xS$ where the value of x is $0 < x \leq 0.9$, further forming over the light emitting layer 4 a 2nd insulating layer 5 and an Al electrode 6. With this constitution, both luminance and efficiency characteristic are improved while maintaining good color purity by using the mixed crystal of MgS and CaS as materials for the light emitting layer 4 consisting of alkali-earth sulfide activated with Eu.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than

the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]